



HURRICANE HARVEY BRIEFING

Noon CDT
Friday, August 25, 2017

Prepared by:
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Situation Overview

Hurricane Harvey



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New Information

- Harvey has 110mph winds (highest Category 2 threshold)

Immediate Concerns

- Harvey is expected to be making landfall as a Category 3 storm with 120mph winds late tonight

Long-Term Concerns

- Low confidence in the forecast once Harvey makes landfall but it is expected to stall just inland



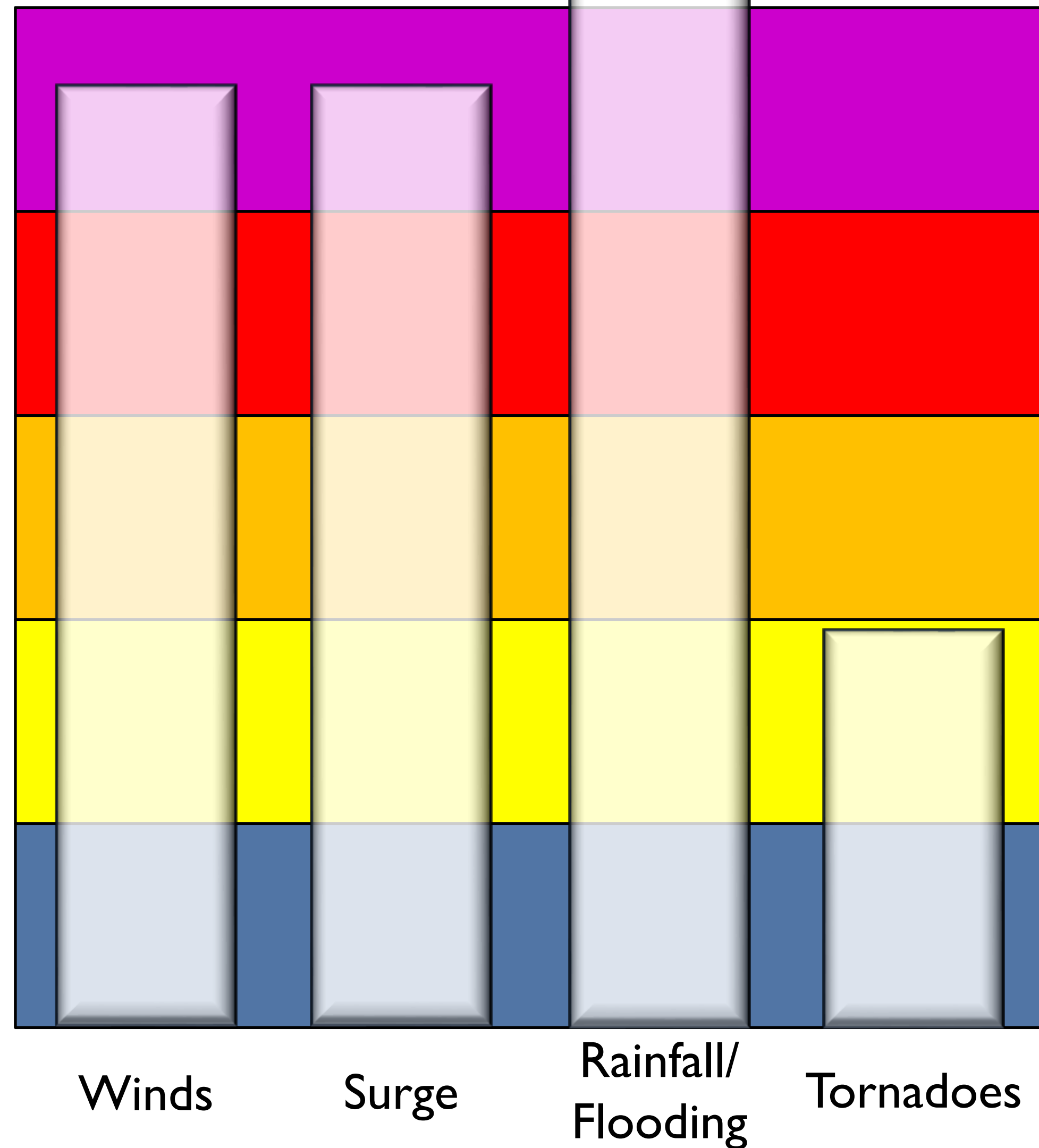
Threat Levels

Hurricane Harvey



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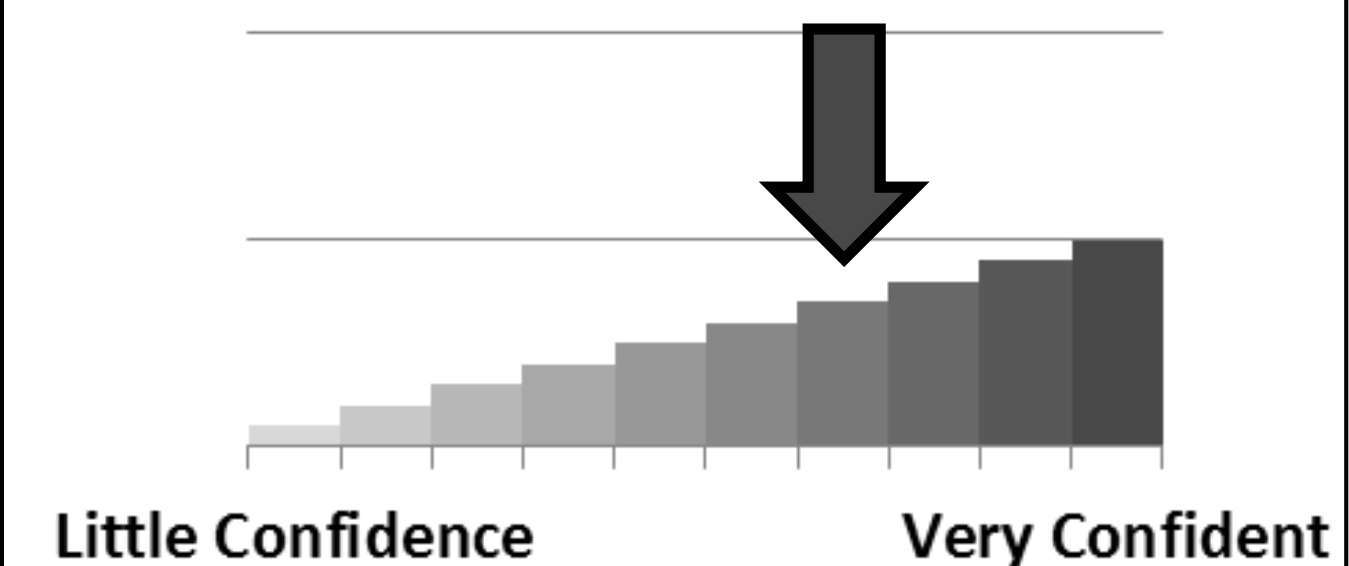
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Threat Level

- Extreme
- High
- Moderate
- Low
- None

Forecast Confidence



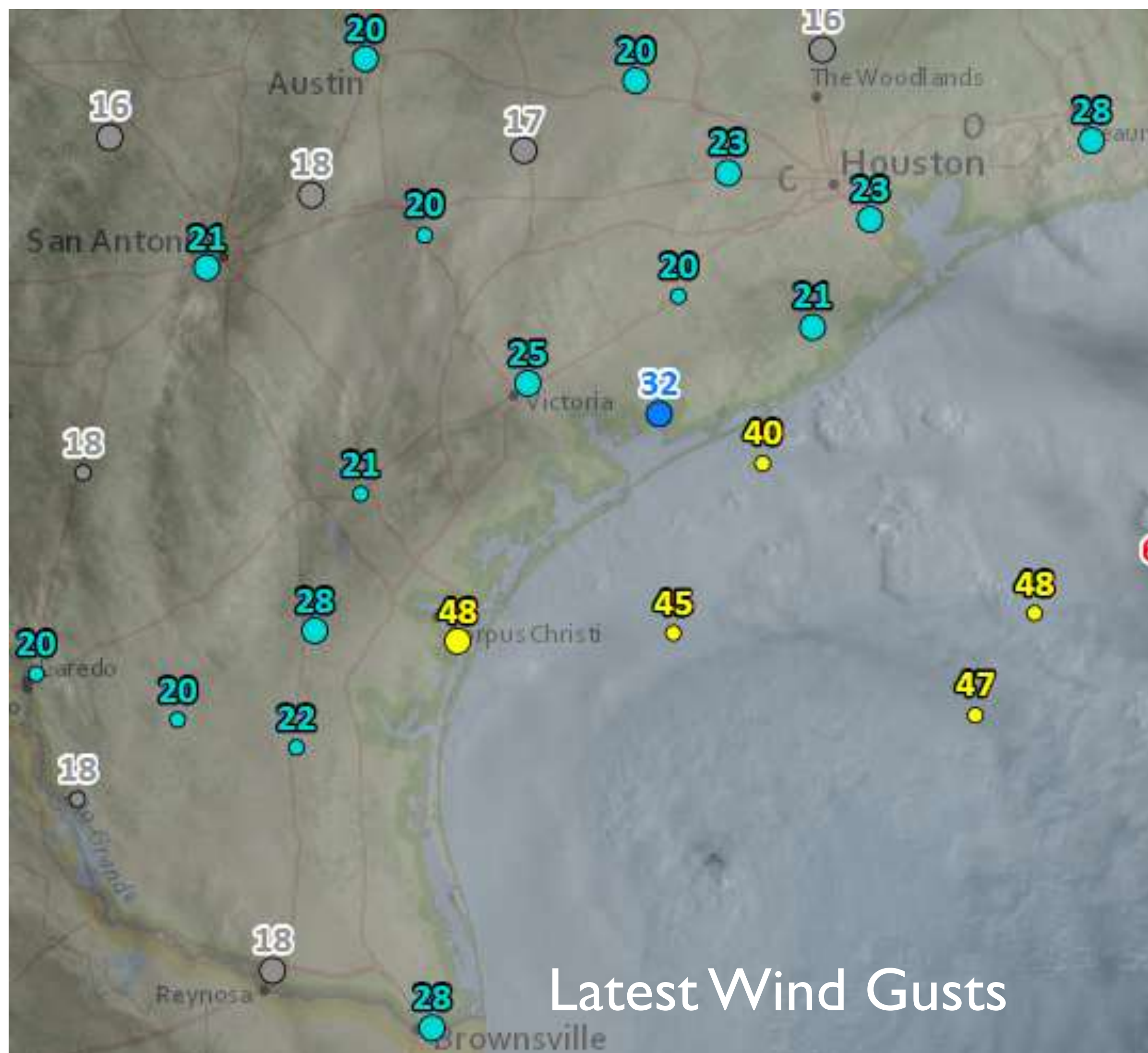
Current Satellite View/Sustained Winds



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Hurricane Harvey



Rain bands have begun moving onshore; these contain:

- Gusty winds (35-50mph)
- Very heavy rainfall
- Quick spin up tornadoes

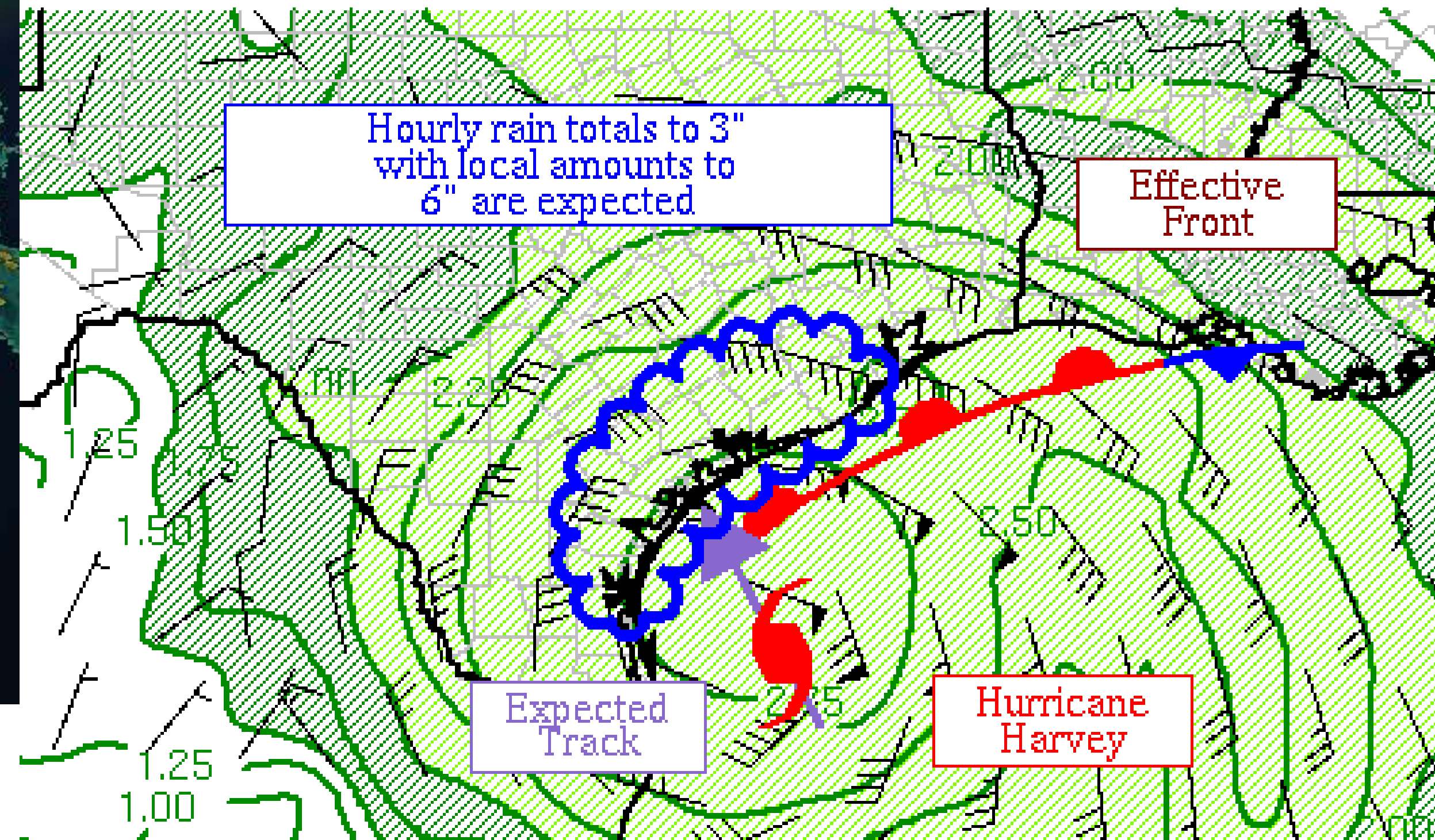
Current Radar View

Hurricane Harvey



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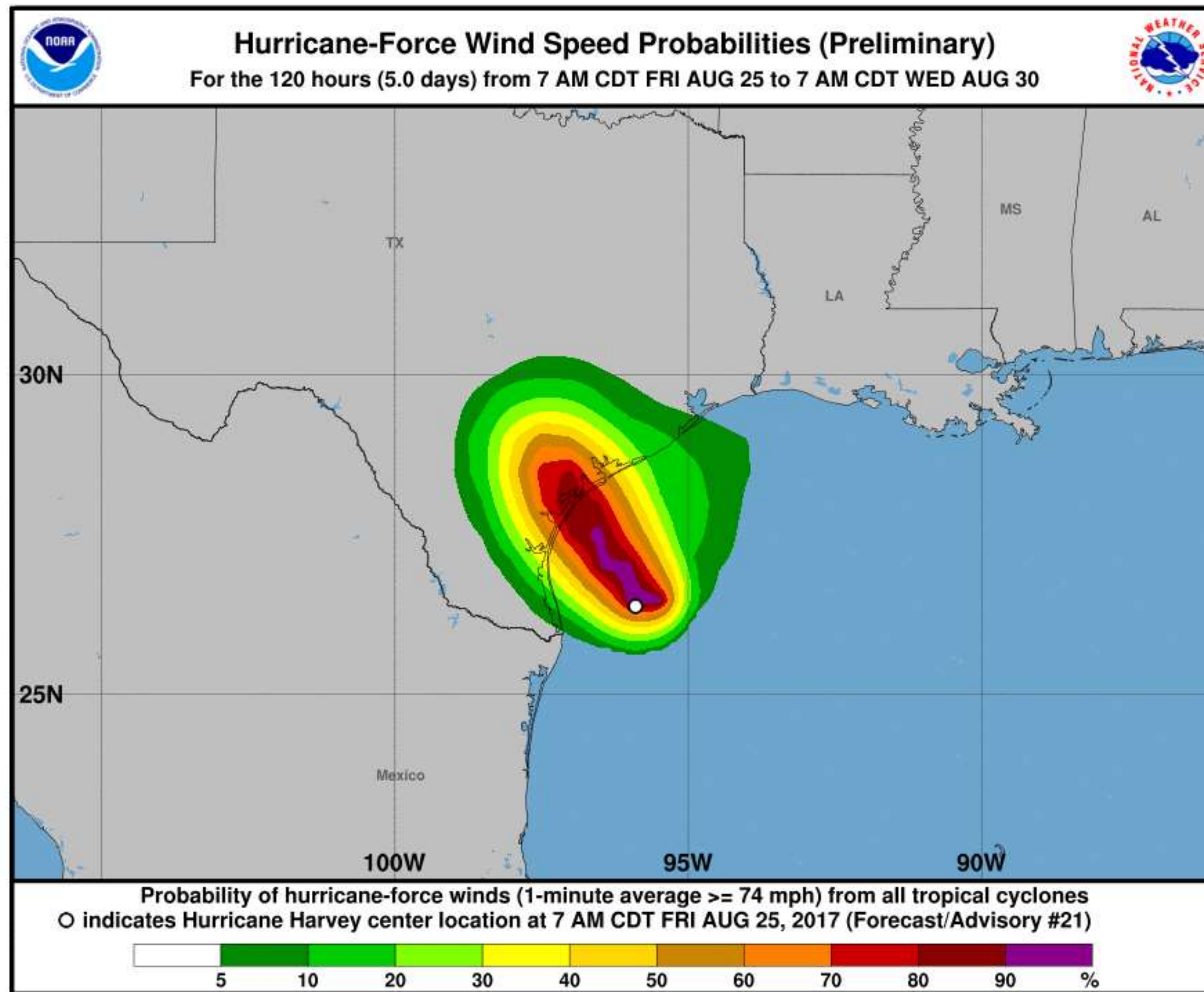
Wind Speed Probabilities

Hurricane Harvey



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- Near certainty that hurricane force winds will impact points along the central Texas coast tonight
- Timing: Tropical Storm force winds are along the coast (39mph) are on the coast; Hurricane force winds (74mph) expected as early as this afternoon
- End time of TS winds: Tuesday into Wednesday (moving eastward)

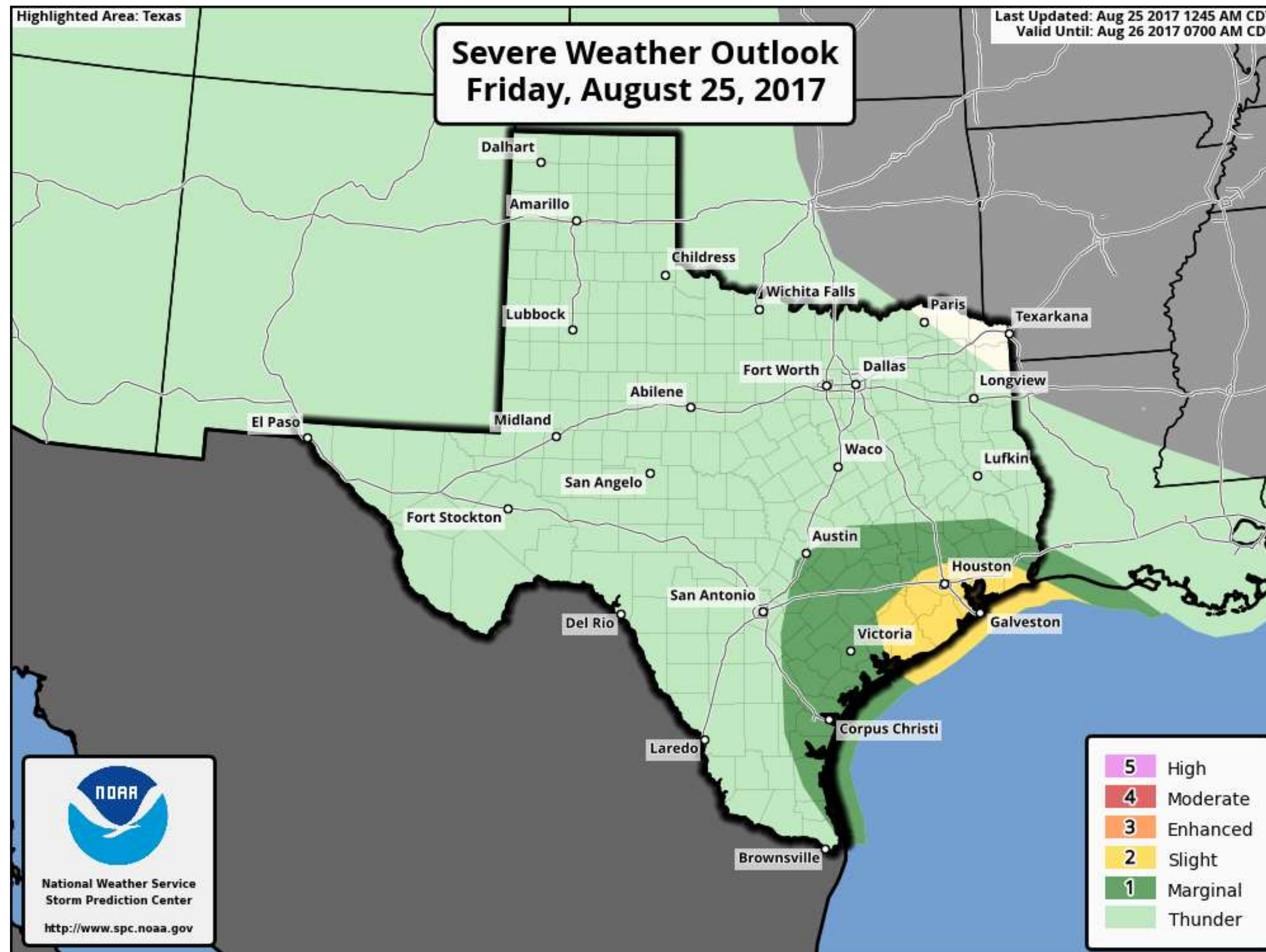
Tornado Potential

Hurricane Harvey



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- Weak, brief tornadoes are possible as the outer bands move onshore today

Storm Surge Watch/Warning

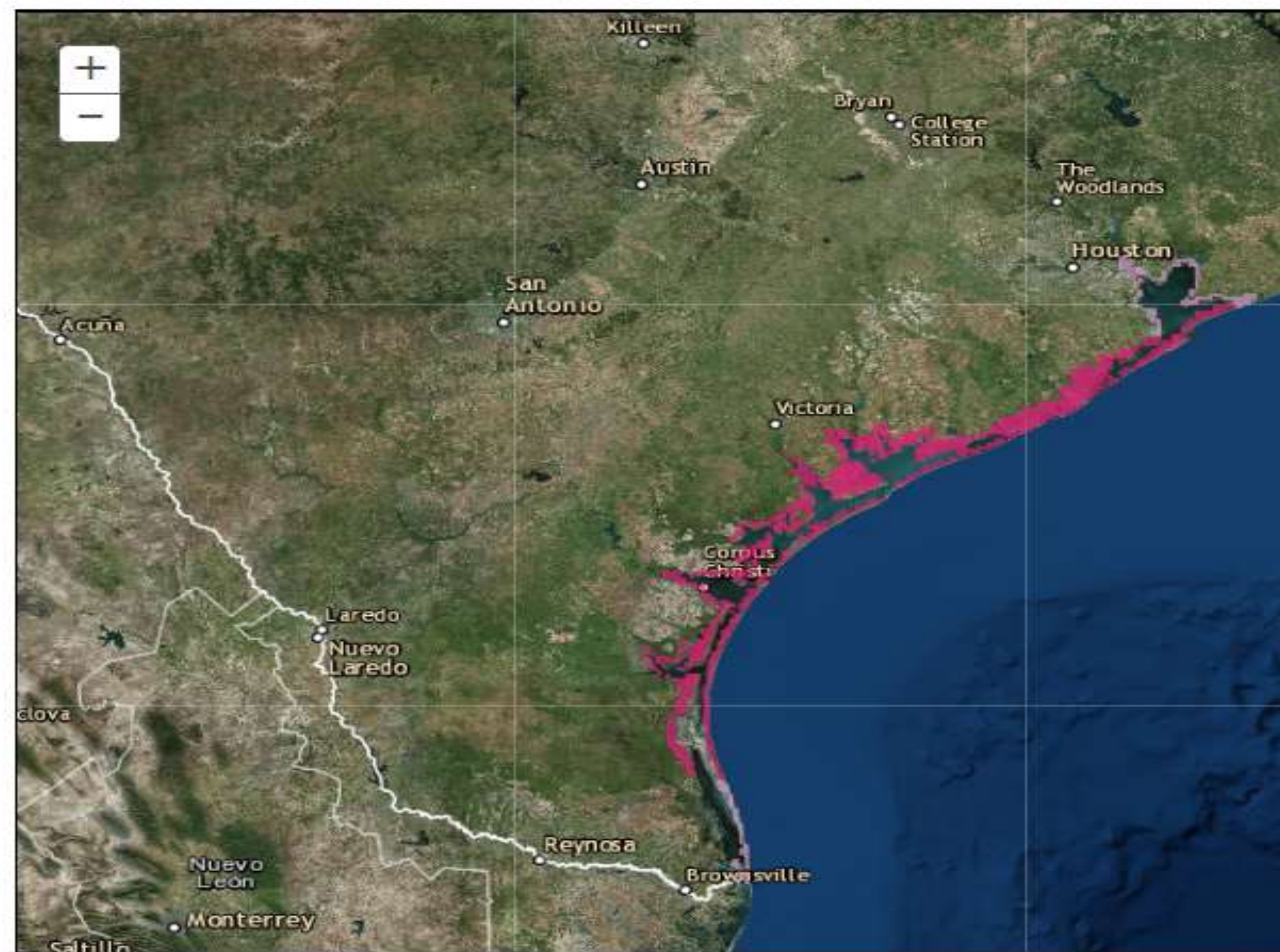
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Hurricane Harvey
Advisory 020 Issued: 4:00 AM CDT Fri Aug 25



Storm Surge Warning
Storm Surge Watch

- **Storm Surge Warning** for Port Mansfield to High Island
- **Storm Surge Warning** there is a danger of *life threatening* surge conditions
- Water levels are increasing steadily along the coast and will peak tonight thru Saturday

Storm Surge Inundation

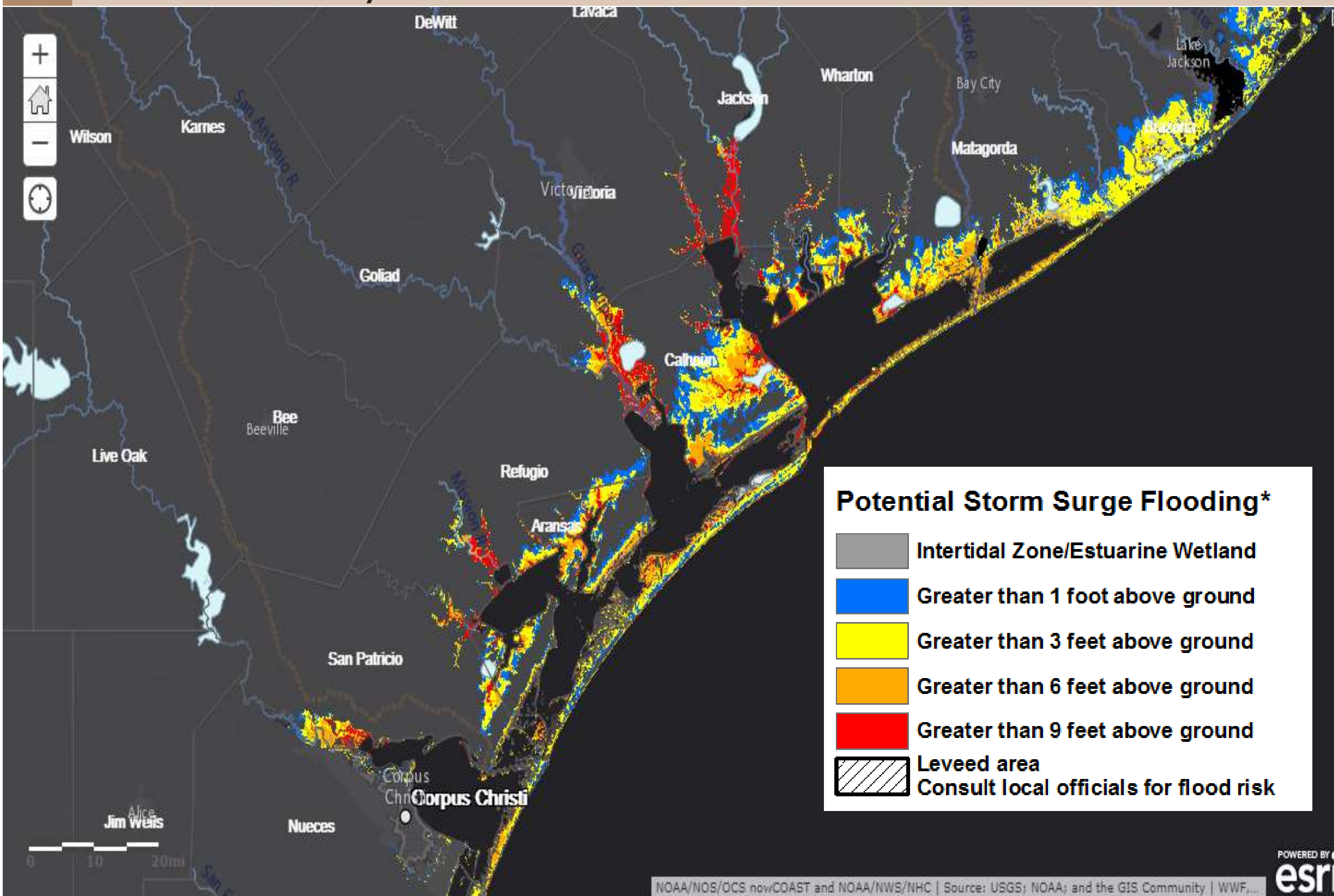
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- Storm Surge Levels of **6-12 feet** above the ground are forecast from Padre Island to Sargent
- 5-7 feet is forecast areas outside this region
- Key areas of concern are the bay areas (San Antonio, Port Lavaca, Port Aransas etc.)



Current Rainfall

Hurricane Harvey



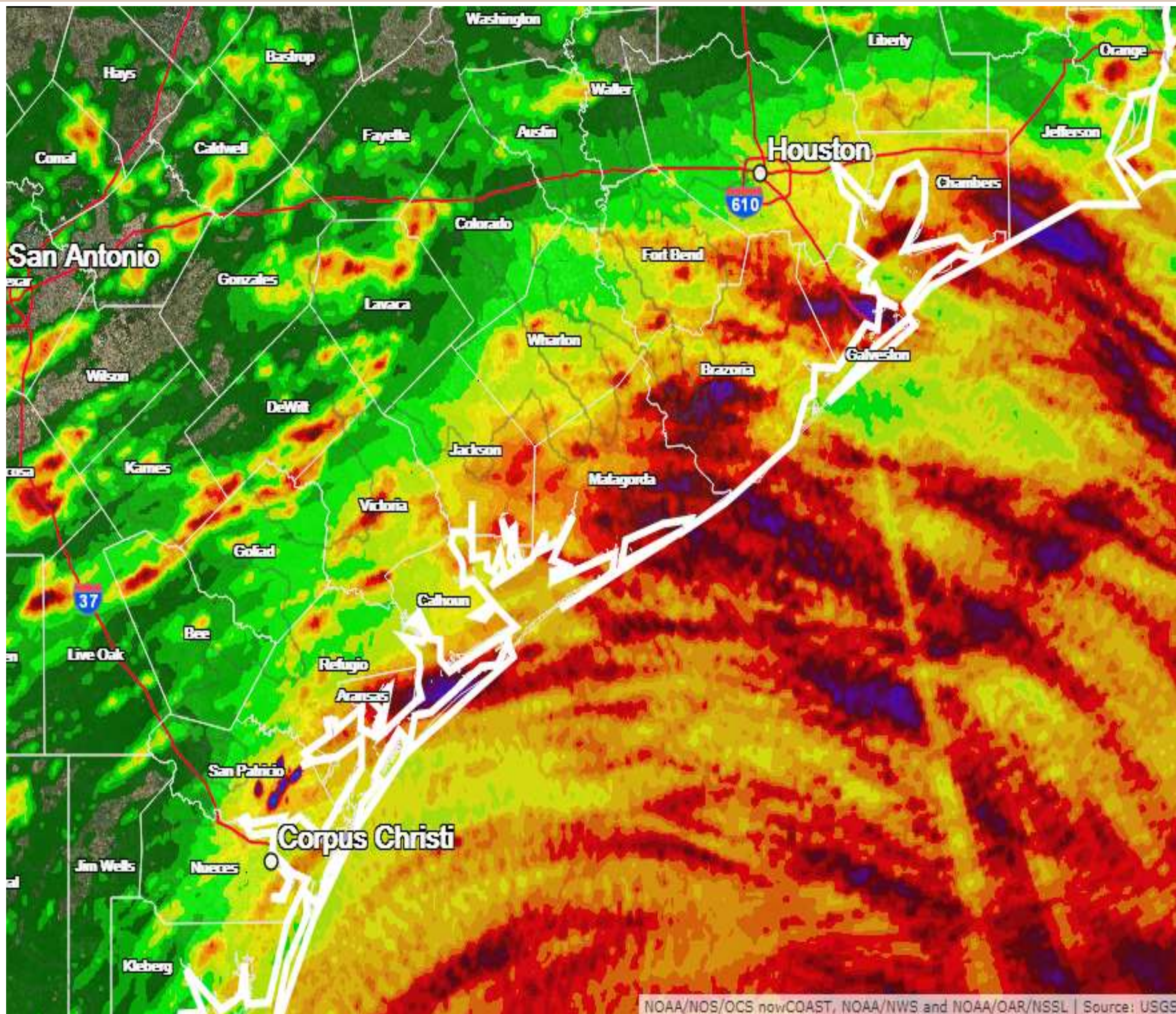
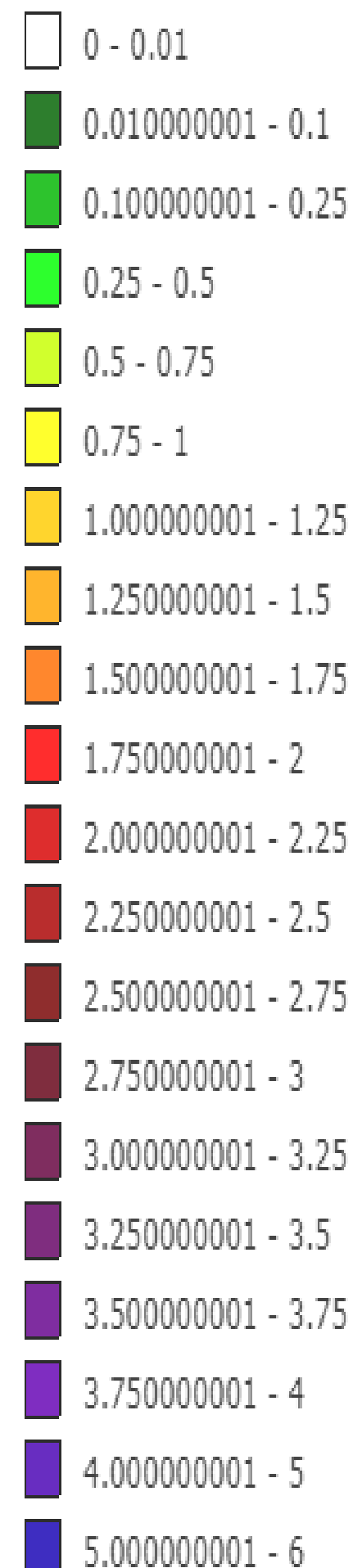
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Legend

24-Hr Quantitative Precipitation Accumulation
(inches)

Image



NOAA/NOS/OCS nowCOAST, NOAA/NWS and NOAA/OAR/NSSL | Source: USGS

- Rainfall Forecast is becoming realized as bands move onshore
- Rain rates of 1.5+” already being experienced and totals surpassing 5” in isolated areas
- Confidence increasing in rainfall forecast with these rates

Expected Storm Total Rainfall

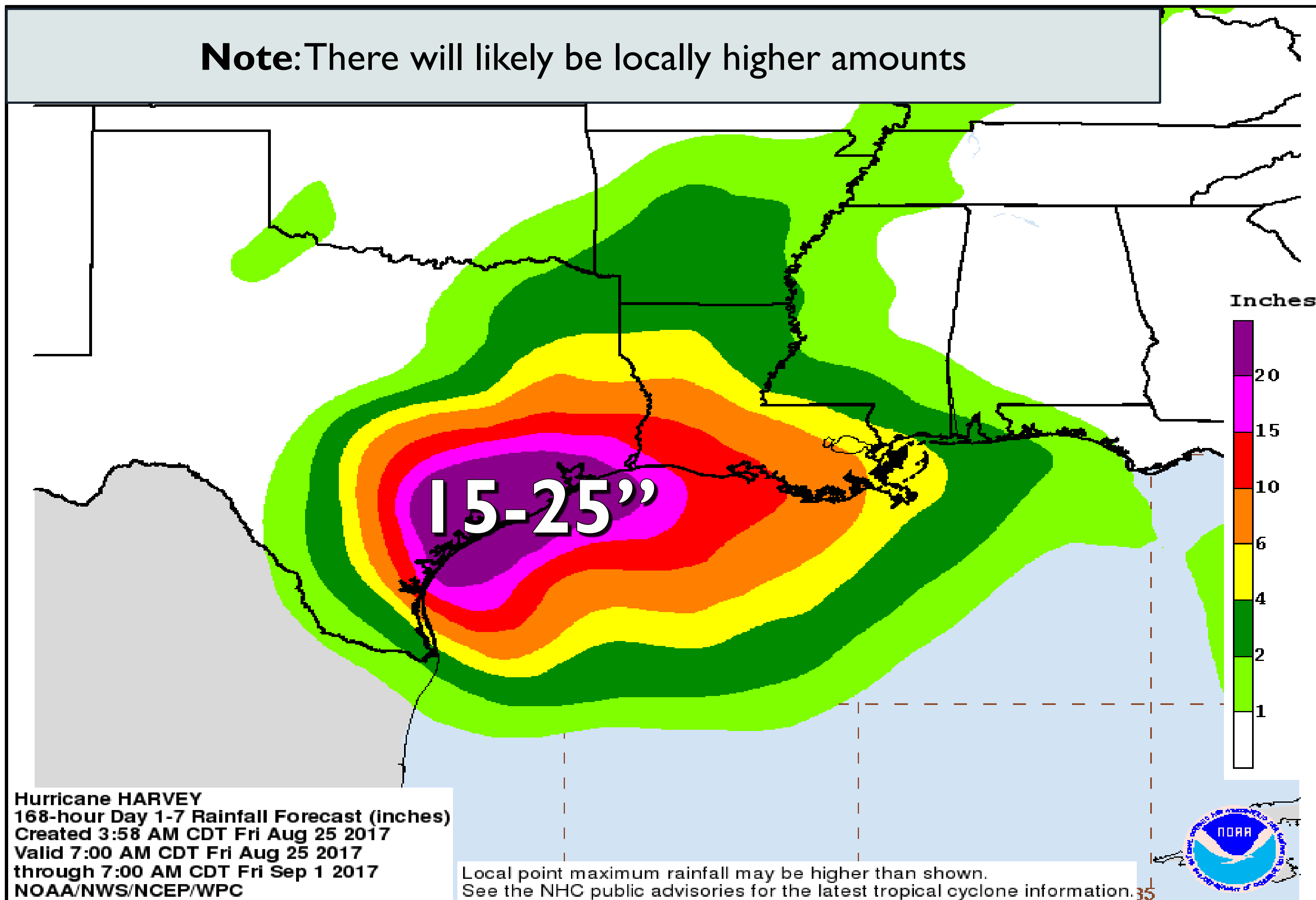
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Note: There will likely be locally higher amounts



- Storm total rainfall forecast valid this morning through Friday morning
- Isolated areas could see 35''
- These rainfall amounts will lead to life-threatening, catastrophic flooding for these areas

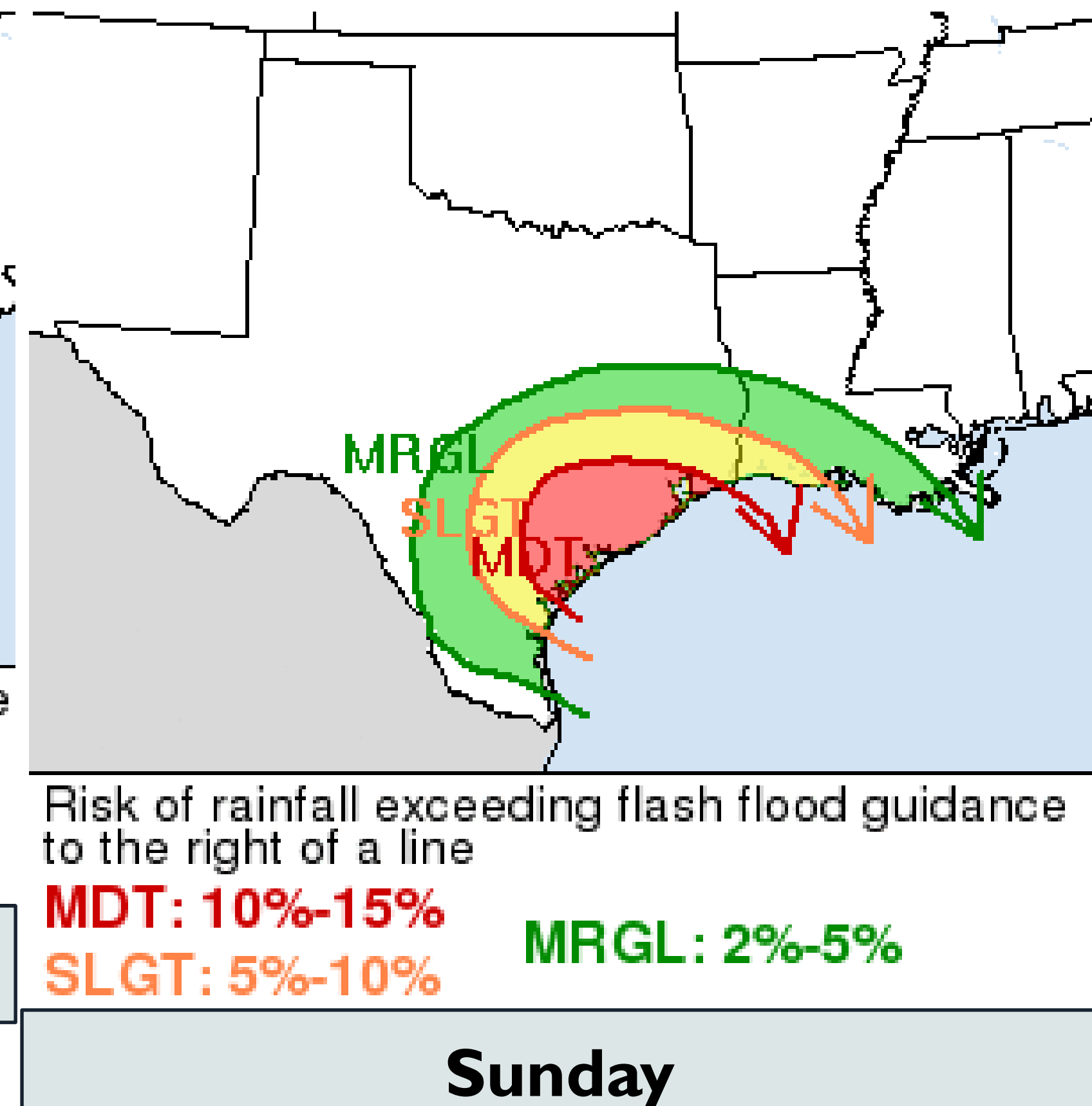
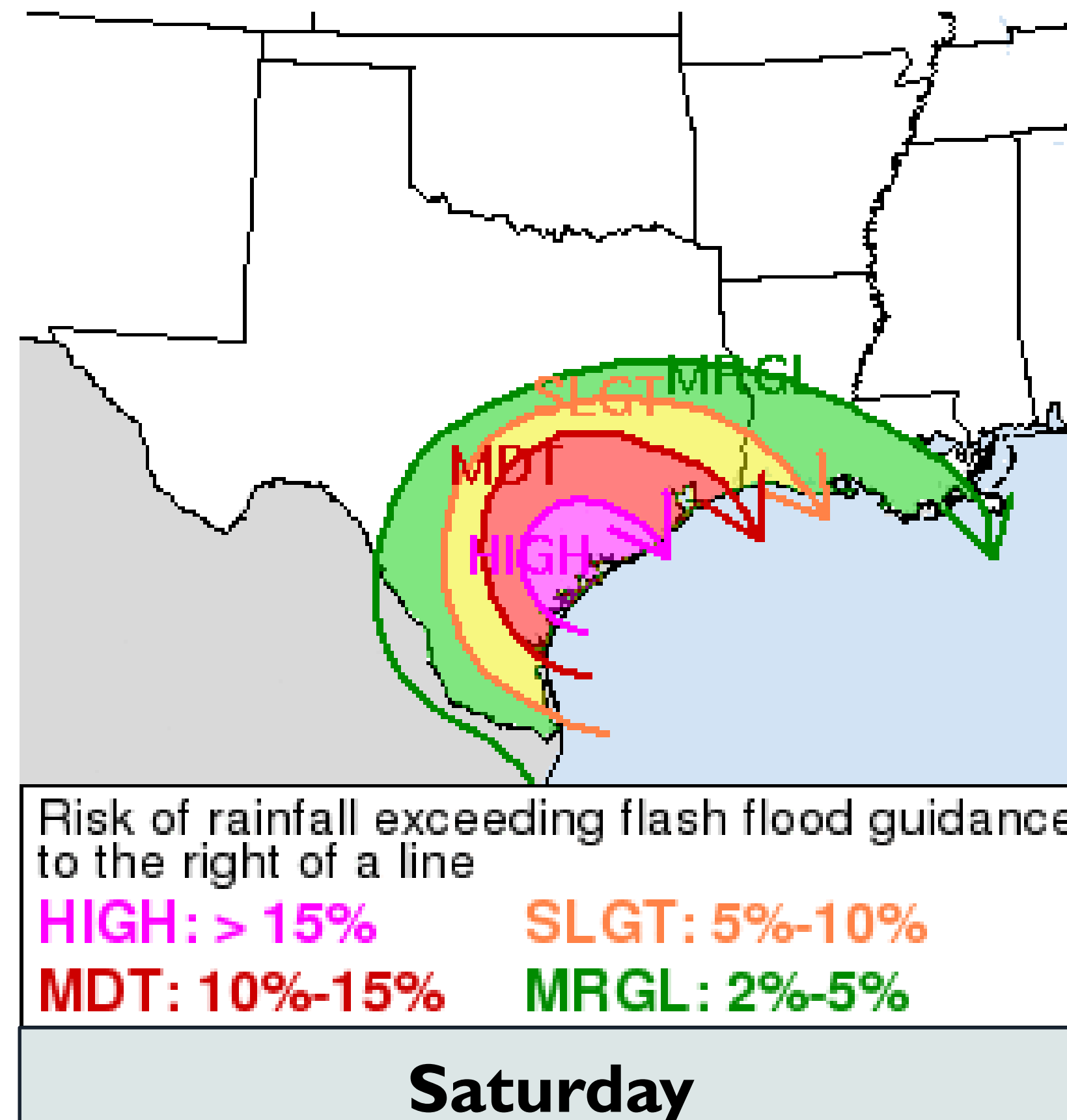
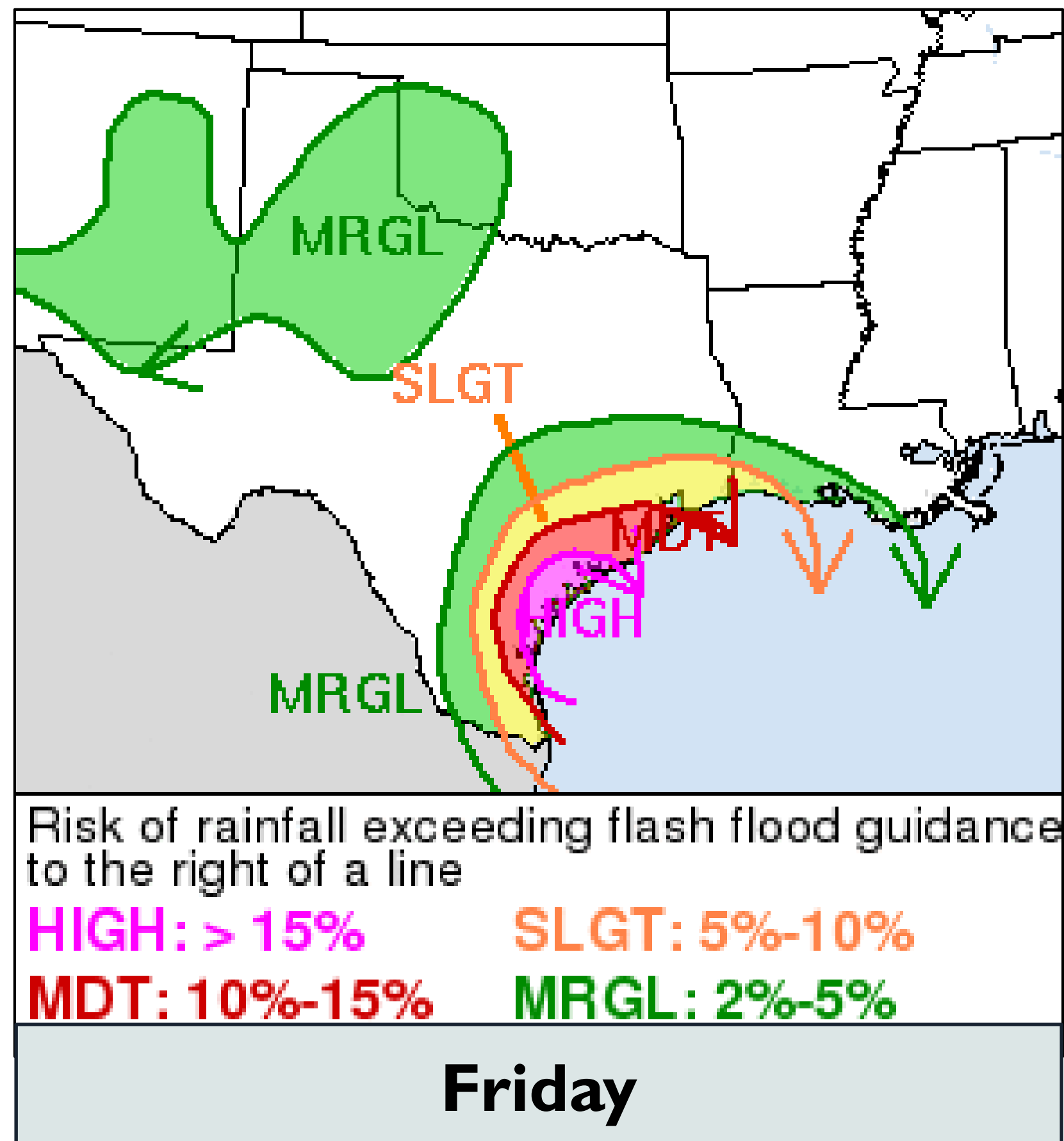
Excessive Rainfall Outlook

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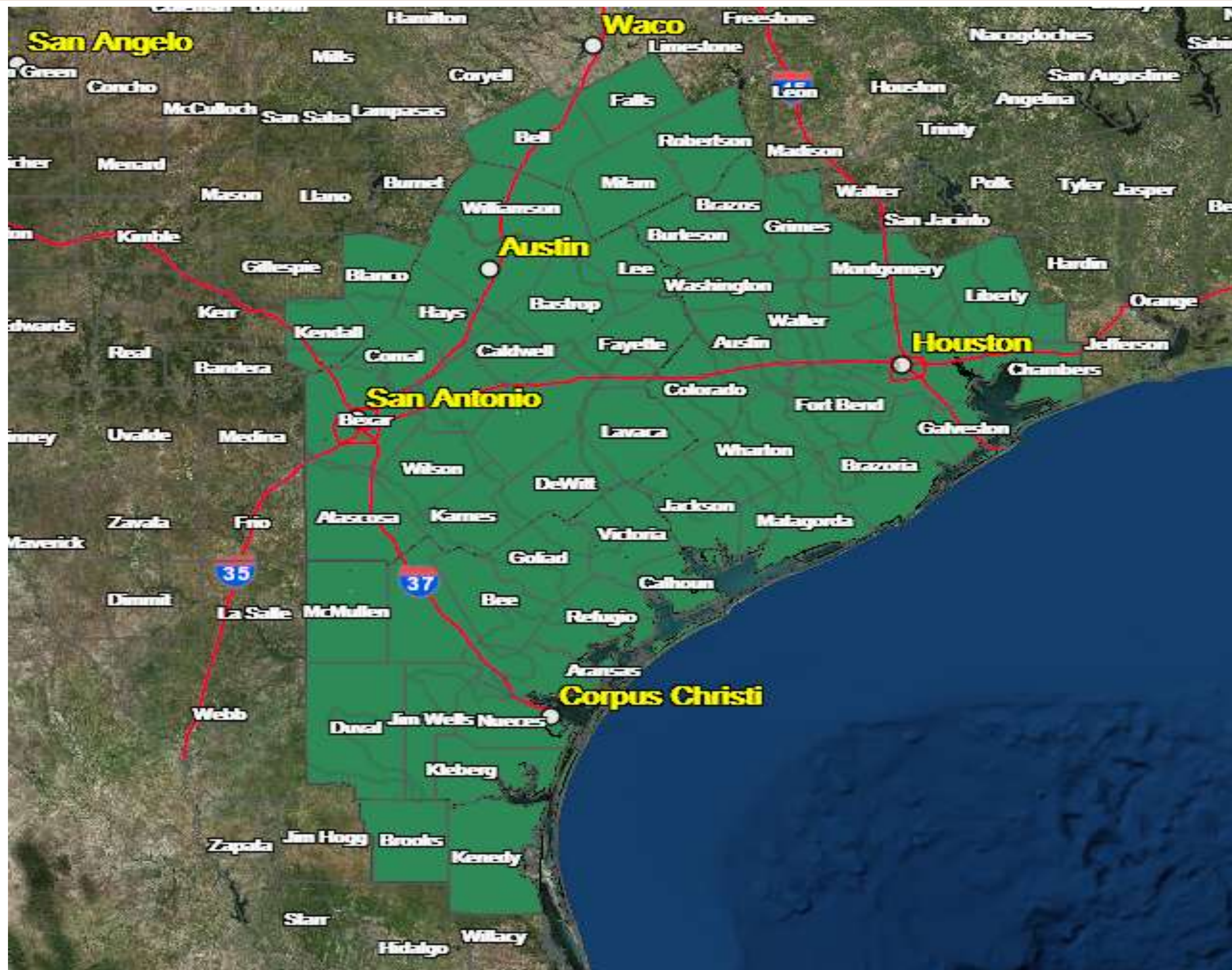
Flash Flood Watches

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- **Life Threatening Flash Flooding Expected**
- Rainfall intensity in tropical systems promotes rapid flash flood development
- Small creeks and tributaries will not be able to hold rainfall and will spill out of banks quickly

Potential River Flooding

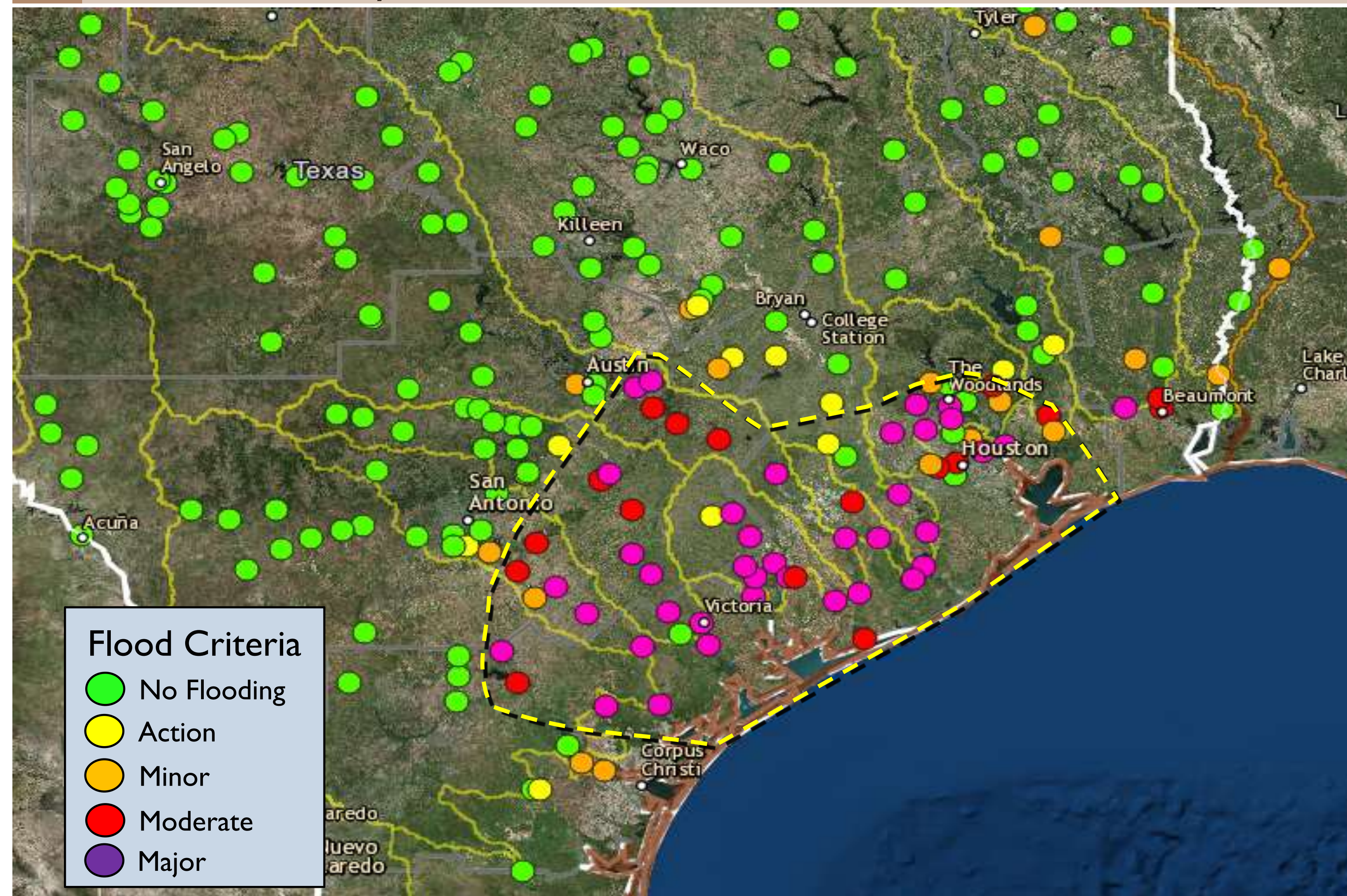
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- **Purple Points** represent points that with current rainfall will reach **MAJOR** or **RECORD** flooding
- **Record** flooding means that the impacts are unknown and beyond anything experienced
- **Devastating** flooding potential with this storm



Major and Record Flood Impacts



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- **Nueces:** Major river flooding likely at Mission River and Arkansas River
- **San Antonio:** Widespread Major river flooding likely for entire area.
- **Guadalupe:** Major river flooding likely to Gonzales and Record river flooding likely for all basins below Gonzales down to Du Pont plant (Bloomington)
- **Lavaca-Navidad:** Widespread Major river flooding likely and Record flooding possible across the river system through next week. (All points below Lake Texana are extremely critical)
- **Colorado:** Record river flooding likely for all basins below the Colorado river at La Grange
- **San Bernard:** Record river flooding likely for entire area
- **The Houston Bayous and the San Jacinto River** will be critical (depending on intensity and rainfall amounts) – the main focus is on Cypress Creek, Greens and White Oak Bayous at this time



- **A Category 3 Hurricane is expected to make landfall along the middle Texas coast tonight**
- **Life threatening storm surge inundation of 6-12ft just east of the storm's center is expected tonight**
- **Life threatening, devastating and record flooding is expected; this will be a combination of inundation from surge, flash flooding from extreme rainfall rates and longer term river flooding**



HURRICANE HARVEY BRIEFING

*The Next Briefing Will Be:
Saturday at Noon CDT*

You can get the latest graphics and information on this storm at www.hurricanes.gov